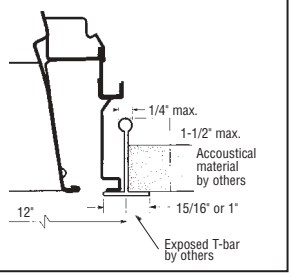
# 1'x4' RECESSED FLUORESCENT, 3" DEEP, 8 CELL (1 ROW) PARABOLIC LOUVER STATIC OR AIR SUPPLY/RETURN, 2 LAMP T8 OR T12

## Features

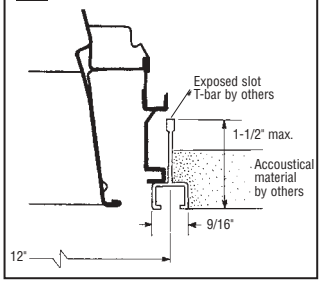
- 67.0% efficient (T8).
- 1.4 spacing mounting ratio.
- Semi-specular low iridescence pre-anodized louver.
- Vertical grain on louver eliminates reflected lamp image on cross baffle.
- Louver frame with integral positive light stop.
- Spring loaded latches (self centering).
- Reversible louver hinging.
- Louver has protective dust guard.
- Only 6-5/8" deep body.
- Black housing exterior for cooler ballast operating temperature.
- Turned-in edges for safe handling.
- Built-in earthquake clip (patent number 5,072,344).
- UL-Listed twin knockout access plate.
- Air closure strips (optional).
- Construction to meet NYC Code or Chicago Plenum is available.

## MOUNTING METHODS

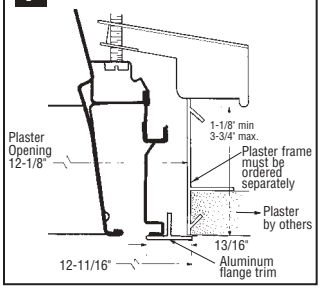
**G** exposed T-grid ceiling.



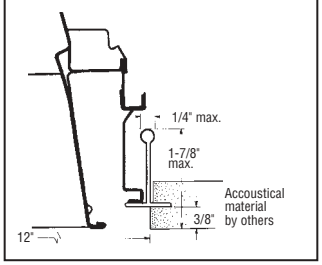

**T** exposed slot T-grid ceiling.

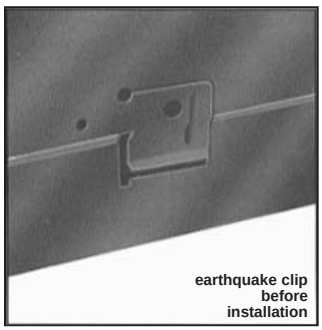


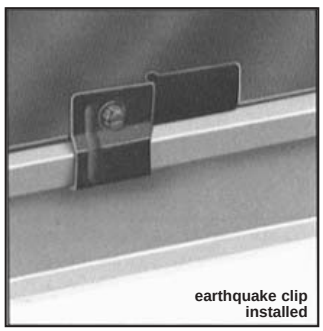

**F** plaster ceiling/flanged.



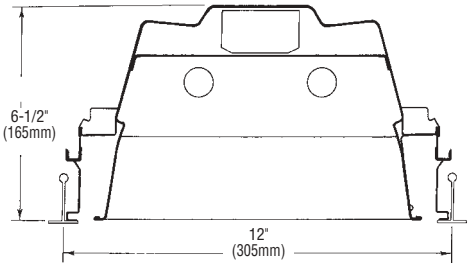

**T** direct concealed two directional T-grid ceiling.

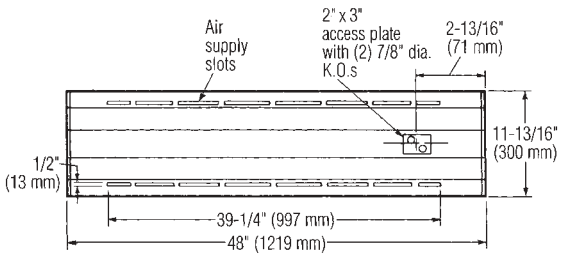




earthquake clip before installation


earthquake clip installed

## DIMENSIONS




| Job Information | Type: |
|---|---|
| **Job Name:** | |
| **Cat. No.:** | |
| **Lamp(s):** | |
| **Volts/Ballast:** | |

**Lightolier** a Genlyte Thomas Company www.lightolier.com
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LIGHTOLIER®

# VR PARABOLIC **VRA1G8LS232**



1'x4' RECESSED FLUORESCENT, 3" DEEP, 8 CELL (1 ROW) PARABOLIC LOUVER
STATIC OR AIR SUPPLY/RETURN, 2 LAMP T8 OR T12

## PHOTOMETRY

**MODEL NO. VRA1G8LS232120SO**

LER = FP - 57.0 IW - 59.1 BF - 0.88
Comparative yearly lighting energy cost per 1000 lumens = $4.21

LTL LUMINAIRE TESTING LABORATORY

905 Harrison Street • Allentown, PA 18103 • (610) 770-1044 • Fax (610) 770-8912

LTL NUMBER: 03322 DATE: 1-8-1997
PREPARED FOR: LIGHTOLIER INC.
CATALOG NUMBER: **VRA1G8LS232SO**
LUMINAIRE: FORMED STEEL 1X4 HOUSING, WHITE ENAMEL REFLECTOR, 8 CELL, 2.75" DEEP, SEMI-SPECULAR ALUMINUM LOUVER.
BALLAST: ONE MOTOROLA M2-RN-T8-1LL-120
LAMPS: TWO SYLVANIA F032/741 RATED AT 2850 LUMENS EACH.
MOUNTING: RECESSED
LUMEN TO CANDELA RATIO USED = 9.18
TOTAL INPUT WATTS = 59.1 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | FLUX |
|---|---|---|---|---|---|---|
| 0 | 1402 | 1402 | 1402 | 1402 | 1402 | |
| 5 | 1400 | 1402 | 1418 | 1425 | 1433 | 136 |
| 15 | 1341 | 1390 | 1488 | 1569 | 1598 | 420 |
| 25 | 1226 | 1344 | 1551 | 1650 | 1660 | 688 |
| 35 | 1066 | 1269 | 1404 | 1329 | 1308 | 813 |
| 45 | 843 | 1080 | 1060 | 1232 | 1363 | 860 |
| 55 | 548 | 692 | 810 | 896 | 901 | 682 |
| 65 | 65 | 123 | 237 | 206 | 208 | 197 |
| 75 | 17 | 18 | 17 | 16 | 14 | 20 |
| 85 | 5 | 5 | 4 | 2 | 0 | 4 |
| 90 | 0 | 0 | 0 | 0 | 0 | |

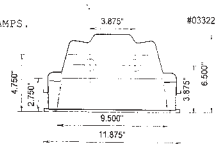
ZONAL LUMEN SUMMARY

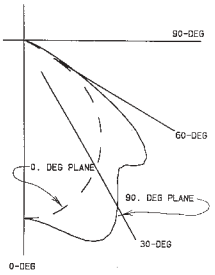
| ZONE | LUMENS | %LAMP | %FIXT |
|---|---|---|---|
| 0- 30 | 1244 | 21.8 | 32.6 |
| 0- 40 | 2057 | 36.1 | 53.9 |
| 0- 60 | 3599 | 63.1 | 94.2 |
| 0- 90 | 3819 | 67.0 | 100.0 |
| 90-180 | 0 | 0.0 | 0.0 |
| 0-180 | 3819 | 67.0 | 100.0 |

TOTAL LUMINAIRE EFFICIENCY: 67.0%
TOTAL REFLECTANCE OF PAINT: 89.3%
CIE TYPE: DIRECT
PLANE: 0-DEG 90-DEG
SPACING CRITERIA: 1.2 1.4
SHIELDING ANGLES: 27 28
LUMINOUS LENGTH: 46.125 9.500

LUMINANCE IN CANDELA PER SQUARE METER

| ANGLE IN DEG | AVERAGE 0-DEG | AVERAGE 45-DEG | AVERAGE 90-DEG |
|---|---|---|---|
| 0 | 4959. | 4959. | 4959. |
| 45 | 4217. | 5302. | 6618. |
| 55 | 3379. | 4995. | 5556. |
| 65 | 544. | 1984. | 1741. |
| 75 | 232. | 232. | 191. |
| 85 | 203. | 162. | 0. |




TESTED BY BILL GRATHER
CHECKED BY MIKE GRATHER

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IES PROCEDURES.

**coefficients of utilization — zonal cavity method**

| | RF | 20 | | | 20 | | | 20 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | RC | 80 | | | 50 | | | 30 | | |
| | RW | 70 | 50 | 30 | 50 | 30 | 10 | 50 | 30 | 10 |
| room cavity ratio | 1 | 75 | 72 | 70 | 68 | 67 | 65 | 66 | 64 | 63 |
| | 2 | 70 | 65 | 62 | 62 | 59 | 57 | 60 | 58 | 56 |
| | 3 | 65 | 59 | 55 | 56 | 53 | 50 | 54 | 52 | 49 |
| | 4 | 60 | 53 | 48 | 51 | 47 | 44 | 49 | 46 | 43 |
| | 5 | 55 | 47 | 42 | 45 | 41 | 38 | 44 | 40 | 37 |
| | 6 | 51 | 43 | 37 | 41 | 36 | 33 | 40 | 36 | 33 |
| | 7 | 47 | 38 | 33 | 37 | 32 | 29 | 36 | 32 | 29 |
| | 8 | 43 | 34 | 29 | 33 | 28 | 25 | 32 | 28 | 25 |
| | 9 | 39 | 31 | 25 | 29 | 25 | 21 | 29 | 24 | 21 |
| | 10 | 36 | 28 | 22 | 27 | 22 | 19 | 26 | 22 | 21 |

**visual comfort probability**

| room size | | | ceiling height | | | | | ceiling height | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| W | L | | 8.5 | 10.0 | 13.0 | 16.0 | | 8.5 | 10.0 | 13.0 | 16.0 |
| 20 | 20 | luminaries lengthwise | 80 | 72 | 68 | 74 | luminaries crosswise | 74 | 64 | 60 | 67 |
| 20 | 30 | | 82 | 76 | 72 | 69 | | 78 | 69 | 62 | 61 |
| 20 | 40 | | 84 | 78 | 76 | 73 | | 80 | 72 | 66 | 63 |
| 20 | 60 | | 85 | 79 | 78 | 75 | | 80 | 75 | 70 | 66 |
| 30 | 20 | | 84 | 76 | 68 | 71 | | 78 | 70 | 62 | 66 |
| 30 | 30 | | 85 | 79 | 72 | 67 | | 81 | 74 | 64 | 60 |
| 30 | 40 | | 86 | 81 | 75 | 70 | | 83 | 76 | 68 | 62 |
| 30 | 60 | | 87 | 82 | 77 | 73 | | 83 | 79 | 71 | 66 |
| 30 | 80 | | 87 | 83 | 79 | 75 | | 83 | 79 | 74 | 68 |
| 40 | 20 | | 85 | 79 | 71 | 71 | | 80 | 74 | 67 | 67 |
| 40 | 30 | | 86 | 81 | 75 | 67 | | 83 | 77 | 68 | 62 |
| 40 | 40 | | 87 | 83 | 78 | 70 | | 85 | 79 | 72 | 63 |
| 40 | 60 | | 88 | 84 | 79 | 73 | | 85 | 81 | 74 | 67 |
| 40 | 80 | | 88 | 84 | 81 | 75 | | 85 | 81 | 77 | 69 |
| 40 | 100 | | 88 | 85 | 82 | 76 | | 85 | 81 | 77 | 72 |
| 60 | 30 | | 87 | 82 | 77 | 69 | | 83 | 77 | 70 | 65 |
| 60 | 40 | | 88 | 84 | 79 | 72 | | 86 | 80 | 74 | 67 |
| 60 | 60 | | 88 | 84 | 81 | 75 | | 86 | 82 | 76 | 70 |
| 60 | 80 | | 89 | 85 | 82 | 76 | | 86 | 82 | 78 | 72 |
| 60 | 100 | | 89 | 86 | 83 | 78 | | 86 | 82 | 78 | 74 |
| 100 | 40 | | 88 | 84 | 80 | 74 | | 86 | 80 | 75 | 68 |
| 100 | 60 | | 88 | 84 | 82 | 77 | | 86 | 82 | 78 | 72 |
| 100 | 80 | | 89 | 85 | 83 | 79 | | 86 | 83 | 80 | 74 |
| 100 | 100 | | 89 | 87 | 84 | 80 | | 86 | 83 | 80 | 76 |

## ORDERING INFORMATION

**Explanation of Catalog Number. Example: VRA1G8LS232120SOGLR**

| | VR | | 1 | | 8 | | S | 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

**BLANK** = Standard
**N** = NYC Code

**VR:** 3" Deep Pre-anodized Aluminum Louver for normal VDT use

**BODY STYLE:**
**A**=Air Handling
**S**=Static

**FIXTURE WIDTH**

**CEILING TYPE:**
**G**= Grid (lay-in T bar)
**F**=Flanged (overlap)
Z spline and plaster frame
**T**=Slot grid or two-directional concealed T (see options)

**NUMBER OF CELLS:** 1 row of 8 cells

**LOUVER FINISH:**
**L**=Low Iridescence Semi-specular (standard)
**P**=Low iridescence specular

**SINGLE WHITE REFLECTOR**

**LAMP QUANTITY**

**LAMP/ FIXTURE LENGTH:**
**32**=T8
**34**=T12
(Nominal 48")

**VOLTAGE:**
120 or 277

**BALLAST TYPE:**

| | LE | |
|---|---|---|
| | <20THD | <10THD |
| 1-2 Lamp Mag. T12 | | |
| 1-2 Lamp Elec. T8 | **SO*** | **HI*** |
| LOL Dimming T8 | **PS** | **–** |

*Instant Start Standard

**OPTIONS:**
Add appropriate suffix to catalog no, ie: (GLR)

Other dimming options, consult factory.

## OPTIONS & ACCESSORIES

**ACCESS PLATE:** Top Wiring access plate is shipped with fixture as standard. When access plates are required in advance for wiring convenience, specify separately. Order Catalog Number: **ACP CSP**.
**ELECTRICAL WIRING OPTIONS:** Consult factory.
**FUSING:** Internal fast-blow fusing. SUFFIX: **GLR**.
Internal slow-blow fusing. SUFFIX: **GMF**.
**RADIO INTERFERENCE FILTER:** 120 or 277 volt, 50 or 60 Hz. One per fixture standard. SUFFIX: **RF**.
**CONTINUOUS ROW INSTALLATION:** For F type fixtures, half-width flanges are required between fixtures. Order Catalog Number: **1FCTRIM** (each joint).
**SPLAY TRIM:** For T ceiling type only. SUFFIX: **CTZ14 S2 SPLAY TRIM**.
**AIR CLOSURE STRIP:** SUFFIX **ACS4** (factory installed).
**DRYWALL KIT:** Order Catalog Number: **FK91X4**. Request Folio OA30-10.
**CHICAGO PLENUM:** SUFFIX: **CP**.

## SPECIFICATIONS

**PERFORMANCE:** In an installation of 2 lamp 32W luminaires in a room cavity ratio of 1, reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .72. To prevent glare the VCP shall be not less than 86 either lengthwise or crosswise (at 100fc level) and the average brightness at 65° shall not exceed 1984 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall be not less than 67.4%.

## SPECIFICATIONS (continued)

**AIR HANDLING:** (VRA only) side air passages for air supply or air return. Optional side closure strips. Air return is also provided through the lamp compartment through fixture body ends.
**MATERIALS: Chassis parts** are die-formed embossed cold rolled steel. **Housing** is embossed for rigidity with all edges turned-in for safe handling.
**LOUVER:** Pre-anodized aluminum (Coilzak@ or equal).
**FINISH: Louver**—low iridescence semi-specular anodized vertical grain aluminum reflector sheet is standard. **Cavity**—white baked polyester minimum reflectance 86%. Phosphate undercoating. **Chassis exterior**—black baked polyester enamel.
**ELECTRICAL:** Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.
**LABELS:** I.B.E.W./UL and C-UL.

**Job Information** **Type:**

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